

CLAIM AMENDMENTS

Amended claim: 1, 4, 7, 8, 9, 11, 12, 14, 16, 19, 20. Cancelled claim 21 ad 22.

1. (Currently Amended) An expander system for radially expanding a tubular element having an unexpanded portion of a first inner diameter, the expander system including an expander movable between a radially retracted mode and a radially expanded mode, the expander being operable to expand the tubular element from said first inner diameter to a second inner diameter larger than the first inner diameter by movement of the expander from the radially retracted mode to the radially expanded mode thereof, wherein the expander comprises a contact section of a diameter larger than said first inner diameter when the expander is in the radially retracted mode, and wherein said contact section is arranged to prevent axial movement of the expander through the unexpanded portion of the tubular element when the expander is in the radially retracted mode, ~~wherein characterized in that~~ the expander is arranged in the tubular element, the expander being in the radially retracted mode thereof, and wherein said contact section is in contact with the inner surface of the tubular element so as to prevent axial movement of the expander through the unexpanded portion of the tubular element.
2. (Original) The expander of claim 1, wherein the expander includes an expansion surface extending in axial direction and being operable to move radially outward so as to expand the tubular element during movement of the expander from the retracted mode to the expanded mode thereof, said expansion surface being of varying diameter in axial direction.
3. (Original) The expander system of claim 2, wherein said contact section of the expander has an outer surface coinciding with the expansion surface.
4. (Currently Amended) The expander system of claim 2 ~~or 3~~, wherein the diameter of the expansion surface increases continuously in axial direction.

5. (Original) The expander system of claim 4, wherein said expansion surface is a tapering surface.
6. (Original) The expander system of claim 5, wherein said expansion surface has a frustoconical shape.
7. (Currently Amended) The expander system of ~~any one of~~ claims 2~~[[6]]~~, wherein said expansion surface is arranged to move radially outward in substantially uniform manner along the length thereof during movement of the expander from the retracted mode to the expanded mode thereof.
8. (Currently Amended) The expander system of ~~any one of~~ claims 1~~[[7]]~~, wherein said contact section of the expander has a smallest diameter smaller than said first inner diameter, and a largest diameter larger than said first inner diameter.
9. (Currently Amended) The expander system of ~~any one of~~ claims 1~~[[8]]~~, wherein the expander comprises an expander body including a plurality of body segments spaced along the circumference of the expander body, each segment extending in longitudinal direction of the expander and being movable between a radially retracted position and a radially expanded position.
10. (Original) The expander system of claim 9, wherein the expander body is provided with a plurality of longitudinal slots spaced along the circumference of the expander body, each said slot extending between a pair of adjacent body segments.
11. (Currently Amended) The expander system of claim 9 ~~or 10~~, wherein each body segment is at both ends thereof integrally formed with the expander body.
12. (Currently Amended) The expander system of ~~any one of~~ claims 9~~[[11]]~~, wherein the expander body is a tubular expander body, and wherein the expander includes an inflatable fluid chamber arranged within the tubular expander body so as to move each body segment radially outward upon inflation of the fluid chamber.

13. (Original) The expander system of claim 12, wherein said fluid chamber is formed within an inflatable bladder arranged within the tubular body.
14. (Currently Amended) The expander system of claim 12 ~~or 13~~, further including a fluid flow control system for controlling inflow of fluid into the fluid chamber and / or outflow of fluid from the fluid chamber.
15. (Original) The expander system of claim 14, wherein the fluid flow control system is arranged to control said fluid inflow and said fluid outflow in alternating mode.
16. (Currently Amended) The expander system of claim 14 ~~or 15~~, wherein the fluid control system includes a valve for controlling outflow of fluid from the inflatable fluid chamber.
17. (Original) The expander system of claim 16, wherein the valve is provided with electric control means arranged to control the valve.
18. (Original) The expander system of claim 17, wherein the electric control means comprises an electric conductor extending through a conduit for the transfer of fluid to or from the inflatable fluid chamber.
19. (Currently Amended) The expander system of ~~any one of~~ claims 1 ~~[-18]~~, wherein the tubular element extends into a borehole formed in an earth formation.
20. A method of radially expanding a tubular element using the expander system for radially expanding a tubular element having an unexpanded portion of a first inner diameter, the expander system including an expander movable between a radially retracted mode and a radially expanded mode, the expander being operable to expand the tubular element from said first inner diameter to a second inner diameter larger than the first inner diameter by movement of the expander from the radially retracted mode to the radially expanded mode thereof, wherein the expander comprises a contact section of a diameter larger than said first inner diameter when the expander is in the radially retracted mode, and wherein said contact section is arranged to prevent axial movement of the expander through the unexpanded portion of the tubular element when the expander is in the radially retracted mode, wherein

the expander is arranged in the tubular element, the expander being in the radially retracted mode thereof, and wherein said contact section is in contact with the inner surface of the tubular element so as to prevent axial movement of the expander through the unexpanded portion of the tubular element ~~of any one of claims 1-19~~, comprising the steps of:

- a) arranging the expander within the tubular element;
- b) moving the expander from the retracted mode to the expanded mode thereof so as to expand the tubular element;
- c) moving the expander from the expanded mode to the retracted mode thereof;
- d) allowing the expander to move axially through the tubular element by the action of an axial force exerted to the expander, until further movement is prevented by virtue of the expander being in the retracted mode and said contact section contacting the inner surface of the tubular element; and
- e) repeating steps b)-d) until the expander has expanded the tubular element or a desired portion thereof, from the first diameter to the second diameter.

21. (Cancelled)

22. (Cancelled)